

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Kolkata regional office**

**Mine file No :** CAL/JHK/SB(W)/FE(M-2)

**Mine code :** 30JHK18003

- (i) Name of the Inspecting : **K004** ) **B.P KERKETTA**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri Ravi Ranjan, Mines Manager, Sri S.S.Rao, AMIE,Min  
Official with  
Designation
- (iv) Date of Inspection : 13/03/2020
- (v) Prev.inspection date : 07/03/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MANOHARPUR (SUKRI )**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : SINGHBHUM (WEST)
- Village : SUKRI
- Taluka : MANOHAR PUR
- Post office : CHIRIA
- Pin Code : 833106
- FAX No. : 06593-263714
- E-mail : rmdsail@gmail.com
- Phone : 06593-287674
- (f) **Police Station** : MANOHARPUR
- (g) **First opening date** : 01/01/1911
- (h) **Weekly day of rest** : SUN
2. **Address for** : STEEL AUTHORITY OF INDIA LTD  
**correspondance** MANOHARPUR ORE MINES, P.O.CHIRIA,  
SINGHBHUM(W), JHARKHAND-833106
3. (a) **Lease Number** : BHR0059
- (b) **Lease area** : 38.85
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 31/08/1979
4. **Mineral worked** : IRON ORE Main

## 5. Name and Address of the

Lessee : STEEL AUTHORITY OF INDIA LTD.  
 INDUSTRY HOUSE 5TH & 6TH  
 FLOOR 10, CAMAC STREET  
 KOLKATA WEST BENGAL  
 Phone:033-22822316/0462/3385  
 FAX :033-22822316/0462

Owner : Harinand Rai  
 Steel Authority of India  
 Ltd. Ispat Bhawan, Lodi  
 road New Delhi-110003  
 SINGHBHUM (WEST) JHARKHAND  
 Phone: 011-24367481-86  
 FAX : 011-24367015

Agent : R.P.SINGH  
 MANOHARPUR(Mc LELLAN)IRON  
 ORE MINE  
 P.O.CHIRIA,DIST.WEST  
 SINGHBHUM JHARKHAND STATE  
 SINGHBHUM (WEST) JHARKHAND  
 Phone: 8986881005  
 FAX :

## Mining Engineer

Name : S S RAO,Full Time  
 Qualification : AMIE(MIN)  
 Appointment/ : 04/02/2018  
 Termination date

## Geologist

Name : RAJESH KUMAR NAIK,Full Time  
 Qualification : M.Phil,PhD (Geo)  
 Appointment/ : 14/11/2014  
 Termination date

## Manager

Name : RAVI RANJAN  
 Qualification : B.TECH (MINING)  
 Appointment/ : 18/09/2019  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	05/05/2006
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	06/02/2009
	:	MP review under 17(1) MCR 2016	28/01/2019

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20nos	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1b	Exploration over lease area for geological axis 1 or 2	17nos.	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s. MECL 5.20 Crores	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	16ha	Nil	-do-
1e	Balance reserve as on 01/04/20	As on 01/04/2019:- Probable Reserve (121) 3.79million Te Probable Reserve (122) 4.86million Te	Probable Reserve (121) 3.79million Te Probable Reserve (122) 4.86million Te	-do-
1f	General remarks of inspecting officers on geology, exploration etc		Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	From 656,662,668,67 4,680,686 mRL Benches	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, overburden and mineral proposed.	Nil	-do-
2c	Stripping ratio or ore to OB ratio	1:0.11	Nil	-do-
2d	Quantity of topsoil generation in m3	NA	Nil	-do-
2e	Quantity of overburden generation in m3	80811cum.	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		This mine is not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, mine development could not be done .	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
3b	Quantity of ROM mineral production proposed	749950MT	Nil	-do-
3c	Recovery of sailable/usable mineral from ROM production	674231MT	Nil	-do-
3d	Quantity of mineral reject generation	Nil	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-do-

3f	Quantity of sub grade mineral generation.	94649MT	Nil	-do-
3g	Grade of sub grade mineral generation	45-55% Fe	Nil	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	No work	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed to carry out beneficiation study centrally for utilisation of Subgrade Ore.	nil	-do-
3j	Provision of drilling and blasting in mineral benches	Wet drilling and Use of dealy detonators	nil	-do-
3k	Provision of mining machineries in mineral benches	Hydraulic excavators (Back Hoe) 3nos., Front End Loaders 3nos, Dumpers 10/16 tonne capacity ,80nos, Drills IR260 3nos. Dozers 1no., Water Tanker 12KL, 2nos. Jackhammer drills 2nos., Air Compressors 450cfm 3nos.	nil	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6mts	6m	-do-
3m	Total area covered under excavation/pits	7.48ha.	7.48ha.	Not working
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	Nil	-do-

3o	Total area put in use under different heads at the end of year	Excavated area 7.48ha.,Waste Dump 0.6ha., Subgrade ore Dump/Fines Dump 1.61ha.,Infras tructure 0.12ha.,Roads 1ha.	Excavated area 7.48ha.,Waste Dump 0.6ha., Subgrade ore Dump/Fines Dump 1.61ha.,Infrastructure 0.12ha.,Roads 1ha.	Not working
3p	Production of ROM mineral during the last five year period as applicable	2014-15 747006MT 2015-16 748036MT 2016-17 748971MT 2017-18 758549MT 2018-19 749950MT	Year Production 2014-15 0 2015-16 0 2016-17 0 2017-18 0 2018-19 0	-do-
3q	General remarks of inspecting officers on method of mining etc.		Production of Iron Ore could not be done as mine was not working since 21st March 2009, for want of Stage II Forest Clearance.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil,OB and mineral reject.	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
4b	Location of topsoil, OB and mineral reject dumps	On the eastern part of the Main Quarry.One subgrade dump on the NNW of Broken area.	On the eastern part of the Main Quarry.One subgrade dump on the NNW of Broken area.	-do-
4c	Number of dumps within lease area and outside of lease area	1	1	Not working
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the pit	Out side the pit	Not working
4e	Number of active 1 and alive dumps.	1	nil	-do-

4f	Number of dead dumps.	nil	1	-do-
4g	Number of dumps established.	1	1	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall or garland drain all along dumps proposed.	Retaining wall or garland drain all along dumps .	-do-
4i	Length of Retaining wall or garland drain all along dumps	500m	Nil	-do-
4j	Number of settling ponds	1	1	-do-
4k	Specific comments of inspecting officer on waste dump management		Mine not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore , Solid waste management (dumping)could not be done as per approved Modified Mining Plan.	

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
5b	Area under backfilling of mined out area	No proposal	Not Applicable	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Use in plantation	nil	-do-
5d	Total area fully reclaimed and rehabilitated	No proposal	Not Applicable	-do-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mine was not working since 21st March 2009, for want of Stage II Forest Clearance. There is no proposal for reclamation or rehabilitation of any part of the mine and waste dump during the next five years.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
6b	Area available for rehabilitation (ha) .	Nil	Not Applicable	-do-
6c	afforestation done (ha).	0.1ha	0.1ha	-do-
6d	No. of saplings planted during the year	500	100(Outside Mining Lease)	-do-
6e	Cumulative no .of plants	N.A.	2500(WML)+ 15580 (OML)	-do-
6f	Any other method of rehabilitation	No	N.A.	-do-
6g	Cost incurred on watch and care during the year	Not Specific.	Nil	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA	-do-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil	-do-



6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	-do-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	-do-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	-do-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air -3 stations per quarter Water - 4 stations per quarter Noise - 5 stations per quarter	Yes, Air -3 stations per quarter Water - 4 stations per quarter Noise - 5 stations per quarter	-do-

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, Progressive mine closure could not be followed as per approved Modified Mining Plan.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Average 62.5 % Fe	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not specific	Nil	-do-
7c	Different grade of mineral sorted out at mines.	Sub grade fines + 59% Fe will be blended with blue dust ore having 64% Fe%	Nil	-do-
7d	Any beneficiation process at mines .	No beneficiation except crushing aand screening.	Nil	-do-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Not working since 21stMarch 2009, for want of Stage II Forest Clearance.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.

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8b	Concurrent use or storage of topsoil	For plantation	Nil	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	2	2	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Nil	-do-
8g	Survival rate	No proposal	60%	-do-
8h	Water sprinkling on roads to control airborne dust	Proposed.	Nil	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mine was not working since 21st March 2009, for want of Stage II Forest Clearance. The aesthetic beauty in and around mines area is good.	Not working since 21st March 2009, for want of Stage II Forest Clearance.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February, 2019 A.R. submitted up to 2018-19	M.R. Submitted up to February, 2019 A.R. submitted up to 2018-19	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri S.S.Rao, Mining Engineer & Sri R.K.Naik,Geologist	Sri S.S.Rao, Mining Engineer & Sri R.K.Naik,Geologist were present during inspection.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current O/C Mining Area-7.48ha. Waste Dumps-0.6ha. Plant, building, residential, welfare building-1.12ha., Other purpose( Sorting & sizing of ore, subgrade ,afforestation )24.02ha.	Excavated Area-7.48ha. Waste Dumps-0.6ha. Sub-Grade Ore Dump/ Fine dump-1.61ha. Infrastructure-0.12ha. Roads-1.00ha	The area given for other purpose (Sorting & sizing of ore, subgrade ,afforestation)seems to be on higher side.
9d	Scrutiny of Annual return on afforestation	100nos Outside Mining Lease, survival rate 60%	Found correct.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening & closing Stock 8157.27Tonnes. ,Graded Ore , Lumps: 55% to below 58% & 62% to below 65% opening & closing Stock, 74412.63Tonnes & 6159.75Tonnes respectively. Fines: Below 55% & 55% to below 58% opening & closing Stock 49500Tonnes & 584.84Tonnes respectively. ROM Production NIL.	Found Correct.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Found Correct.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9h	Scrutiny of Annual return on fixed assets	Rs.1375416291/ -	It appears on higher side.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.
9k	Scrutiny of Annual return on mining machineries	Dozer 320HP 1no.	Found Correct.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(B.P KERKETTA)

Indian Bureau of Mines